

## **Owner's Manual**

Creative Digital Research, Inc.  
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San Jose, CA 95129

## **Creative Digital Research Technical Support**

Our Customer Support staff is ready to assist you with any problem you may have with your CDR Software. Technical support is available by either E-mail or fax. You must be a registered user to obtain technical support. Be prepared to give us your software registration code when contacting CDR.

It would be helpful if you can provide complete information with your email or fax. This should include the platform and version number of the software, the computer system specs and the brand name of the recorder you are using. This will help us find a solution quickly and efficiently. Please provide as much information as possible about the situation you are experiencing including any error messages you have received.

E-Mail: support@HyCD.com

World Wide Web: <http://www.HyCD.com>

FAX: (408) 255-1011

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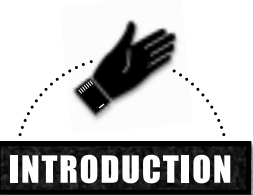
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# Chapter One

## Introduction

### **Congratulations on your purchase of HyCD Recording software for Windows!**



This software includes HyCD Data, HyCD Copy, HyCD Music, HyCD Format, and HyCD Publisher. With the help of these applications, you'll find that creating your own CD-ROM discs is easy and fun. You can use these programs to create data CD-ROMs, back up important data from your computer system, and record your own custom music CDs. In the next chapter, we'll show you how to get started.

**Notes:**



## GETTING STARTED

# Chapter Two

## Getting Started

### On Your Mark

#### Installing the Software



Before you get started with HyCD, the first thing you'll need to do is install your software. To begin, insert the HyCD Suite CD into your CD-ROM reader. Change directories to the drive where your CD-ROM reader is located.

Change to the "packages\win95" or "packages\winNT" directory. Double-click on **setup.exe** to begin the install program.

### Get Set

#### Registering the Software

Now that you've installed your HyCD Recording software, the next step is to register it. The process will only take a few minutes, and once you've registered, you'll be able to get technical support from Creative Digital Research.

After opening the application, select the **HyCD Register** button or menu item. A window will pop up for you to enter your software registration code followed by another window where you can enter your name and address information. You'll find the registration code on the cover of the CD case or on the card inside your package.





When you have finished entering your name and address information press the **Next** button to go to the next window.

To register for technical support, pick Option 1 or Option 2 below.

Press the Option 1: **Save** button to generate a license request file, which will be saved on your system. The location of the file will be indicated in the window. Attach or copy this file to an E-mail message and e-mail it to [license@HyCD.com](mailto:license@HyCD.com).

If you do not have E-mail, press the Option 2: **Print** button to print a copy and fax it to (408) 255-1011. CDR will process your registration and you will be eligible to receive technical support from CDR. Press the **Next** button to go to the next window. Congratulations, you're done!

After you've completed the registration process, HyCD Recording software will be activated in either the personal or the full-featured version. You can find out what version you have by selecting **Help/About...** in the main menu.

You can upgrade from the personal version to the full-featured version. Contact CDR for information on purchasing an upgrade.

## Personal Versions

If you have a personal version of HyCD Recording software, you can run it right away, even if you haven't registered. Select Option 3: **No Thanks** if you don't want to register right away. Don't put it off forever, though; you'll have to register before you can take advantage of tech support, upgrades, and important enhancements, patches, and information that CDR may supply from time to time.

## Picking Your Platform

When you get your license, it will be for a specific platform, such as Windows, Windows NT, Windows 95, SunOS, Solaris or SGI.

The platform you register for is determined by which one you're using when you first install and register your software. *You will not*



*be able to move the software to a different operating system once it is registered unless you purchase an upgrade.*

To run HyCD Recording software on a different platform—for instance, if you're upgrading from Windows 3.1 to Windows 95—you'll need to purchase an upgrade license from CDR.

---

If you want to run HyCD Recording software on additional platforms—say, on both Windows 3.1 and Windows 95—or on more than one machine, please contact your reseller to purchase additional licenses.

### **Licenses Don't Take Long**

If you request a license by E-mail, CDR will usually respond within a few minutes, as long as the request is received properly. Fax requests will be answered within 24 hours during normal business hours.

**Note for E-mail users:** Please check the "From" field on your E-mail. A wrong return address could end up making your mail undeliverable. Also, some delays in receiving E-mail could be caused by the get-mail interval on your E-mail system.

### **Formats You Can Use**

**The HyCD PC Suite supports the following formats:**

HyCD Data: ISO9660 for Windows 3.1, Joliet for Windows 95 and Windows NT

HyCD Copy: ISO9660 for Windows 3.1, Joliet for Windows 95 and Windows NT; Mode 1 data CD, Red Book audio CD; possible support for Mixed Mode, Enhanced CD, CD-I, CD-XA and game CDs



HyCD Music: Red Book Audio

HyCD Publisher: ISO9660 for Windows 3.1, Joliet for Windows 95 and Windows NT; Mode 1 data CD, Red Book audio CD; possible support for mixed mode, enhanced CD, CD-I, CD-XA and game CDs

## Go

### Starting the Applications

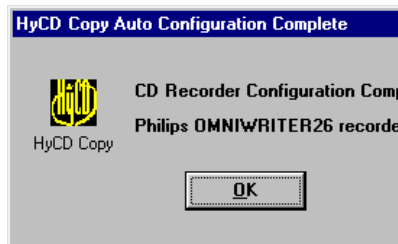
To start any component of the HyCD Suite, just press the Windows **Start** button and go to **Programs**. Click on the appropriate icon.

### There's Nothing to It

Your software still needs to go through a couple more procedures, which pretty much take care of themselves. Here's a brief explanation of each.

### Auto Configure

When you first start a HyCD software product, it will scan the IDE and SCSI bus for CD recorder and CD rewritable devices. Once it locates the devices, the HyCD software will automatically configure the hardware and inform you that it has done so.





## Auto Record Speed Switching

HyCD Recording software automates the CD recording process as much as possible. It automatically adjusts the recording speed to match the computer's optimal speed for rapid and reliable CD recording. It provides three recording modes that you can choose from:

### Test & Write

In this mode, the application will first perform a test write process with the recorder's laser turned off. If the test is successful, the application will then perform a real write. If your computer is not fast enough, the recording speed will be switched to record at a lower speed, and the software will then continue the next test & write process.

This feature is designed for novice users, to eliminate the chances of recording a bad CD. This process will take twice as long as the real write process because it needs to record once for testing and once for the real write process.

### Test Only



In the test only mode, the application will perform only the test write process, with the recorder's laser turned off. This feature is set for testing the system performance manually.

### Write Only



When it is set to write only, the application will only perform the real write process. This feature is for advanced users who already know the recording speed at which the computer system will perform.



## GETTING STARTED

### **CD-to-CD Direct Copy**

HyCD Copy and HyCD Music can support CD-to-CD direct copy with the Plector Px-4XCE, PX-8XCS, PX-12XSx and PX-20TSx and Philips PCA80SC and PCA16SC CD readers.

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### **Windows 95 CD-ROM Reader Driver Issue:**

After writing the current session, the Windows 95 CD-ROM driver may or may not update its contents, so the system may still only show the previous session.

### **Work Around:**

To "force" Windows 95 to update the CD-ROM, eject the tray and access the drive to get an accessing error. Insert the tray back into the recorder and access the CD again. By this time, Windows 95 will reread the CD and update the internal structure to "mount" the last session.

---



# Chapter Three

## HyCD Data: Easy, Simple, Portable



With HyCD Data, you'll be surprised how easy it is to make your own data CDs. HyCD Data will guide you step-by-step through dragging and dropping the files you want from the familiar Windows Explorer and writing to the CD. It maximizes use of the CD by appending only the updated files to the CD. And it automates the tedious tasks of hardware configuration, not to mention performing automatic system configuration, device driver installation, and CD recorder speed selection and switching.

HyCD Data automatically formats the CD so that it can be used with DOS, Windows 3.X, Windows 95 and Windows NT.

Professional users may want to upgrade to the full-featured version; this version can create platform-independent CDs for DOS, Windows 3.X, Windows 95, Windows NT, Macintosh and UNIX platforms.

To find out about upgrades, please call CDR at (408) 255-0999 or send an E-mail to [info@HyCD.com](mailto:info@HyCD.com).



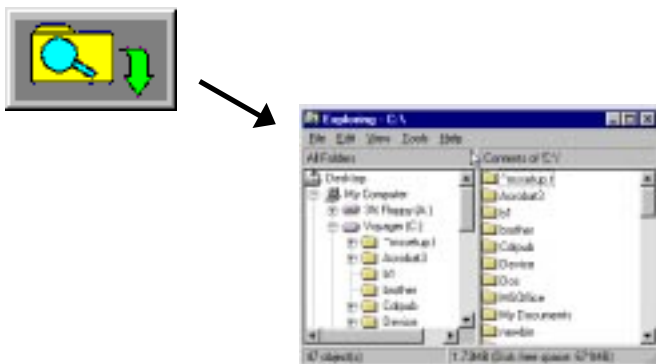
## Six Steps to Your Own Data CD-ROM

It won't take long to create your own data CDs. Here's all you need to know.

1. Start HyCD Data by double-clicking the **HyCD Data** icon.



2. Select source files by clicking on the **Drag and Drop** icon to access Microsoft Explorer.



3. Drag and drop the files you want to copy from Explorer to the HyCD Data window. When you select a folder or directory, you'll include everything in that directory and all subdirectories under it.



4. The **Validate after Create** option is located in the main menu/option list. Select this option if you want the software to test your new CD to make sure it was recorded correctly. When this option is selected, once the CD has been recorded, the software will automatically perform the validation process.
5. Select the record method you want from the main menu—either “track at once” or “packet writing”. See “Packet Writing Using HyCD Data” below.
6. Insert a blank CD or a prerecorded data CD into the CD recorder.
7. Press the **Record** button to begin the recording process.



That's it!

HyCD Data will create mode 1, multisession, data CDs.

**Note:** The HyCD software automatically selects the “test & write” option as the default for recording the CD. You may select a different mode or speed of recording by selecting the test & write, test only, or write only mode, or by selecting various speed options.





## Selecting Mode and Speed

1. Click on the **Test & Write** button to select the method of writing. You have several options:

- Test the image first, then write it to the disc.
- Test the image only without writing to the disc.
- Write the image directly to the disc without testing.

We recommend that you perform a test before writing to the CD the first time.



2. Select your recording speed by clicking on the **Speed** button. Normally, the software will have set the default recording speed automatically.

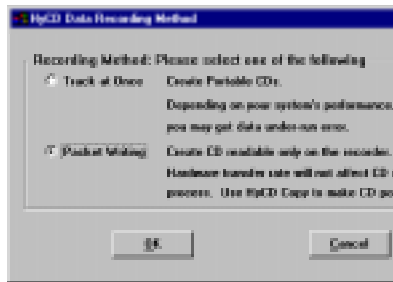




## Packet Writing Using HyCD Data

HyCD Data can perform the packet writing method of recording to a CD with the Ricoh 6200 and Philips OMNIwriter 3610.

Packet writing is a method of writing in which the hardware data transfer rate does not affect the CD recording process. The benefit is that you get no data under-run error. The only drawback is that you need a multiread CD reader or the original recorder in order to read the CD back.



1. After selecting the data you want to record, set the record method to “packet writing”.
2. HyCD Data will configure its window to “record only”.
3. Begin to record.

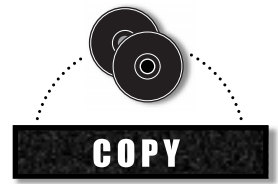
Note: Packet writing will only work in record mode. The test write operation is not available.

### Creating a Cross-Platform CD

Since the packet written CD is still in the cross-platform HyCD format, you can use HyCD Copy to make a copy of the packet written CD in order to create a new CD that can be read on standard CD readers.

Note: The packet writing method is slower than the “track at once” recording method. Please be patient. Wouldn't this be a great time to go get a large cup of coffee?

**Notes:**



# Chapter Four

## HyCD Copy: Backing You up All the Way

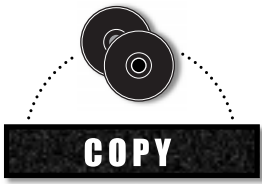


HyCD Copy makes it easy to back up your CDs. It guides you step-by-step through the process, helping you read information from an original CD and copy it to the CD recordable media. If you have a standard CD reader, you can perform CD-to-CD direct data CD duplication. If you have SCSI CD-ROM readers capable of digital audio extraction, you can perform CD-to-CD direct audio CD duplication.

HyCD Copy automates the tedious task of hardware configuration and performs automatic system configuration, device driver initialization and CD recorder speed selection and switching.

With HyCD Copy, you can duplicate most common types of data CDs and music CDs in the market. These include CDs designed for Windows 3.X, 95, and NT, as well as Macintosh and UNIX, and game CDs. Depending on the original CD, HyCD Copy may also duplicate enhanced CDs and mixed mode CDs.

HyCD Copy supports CD-to-CD direct copy with the Plextor PX-4XCE, PX-8XCS, PX-12XSx and PX-20TSx and Philips PCA80SC and PCA16SC CD SCSI readers. HyCD Copy also supports IDE-based CD-ROM readers for copying data CDs. Since most IDE drives can play back audio tracks but cannot extract them, CD-to-CD is not available for copying audio CDs.



## Choose Your Method

You can create your backup CDs using one of three methods. Read this section first to see which method will work best for you.

### Read from CD-ROM and Copy to CD Recorder



This choice assumes that you're using a CD-ROM reader and a separate CD recorder. It is not available if you only have a single read/write recorder. If you use this method, the software will read the original CD in the reader and immediately write it out to the CD recorder. This allows you to duplicate an existing CD in a single step.

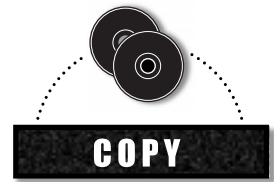
► **Note:** You must use a CD reader with digital audio extraction capability to copy audio tracks. We currently support only the Philips PCA80SC 8x reader for CD-to-CD music copying. Additional readers will be supported in the near future.

### Copy from CD Recorder to Hard Drive, Then Copy Back to CD Recorder

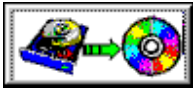


If you're using a single read/write CD recorder, you'll use a two-step process to record your backup CDs. First, the original CD must be read and saved to your hard drive, using the CD recorder as a reader. Then, the image can be written from the hard drive to the recorder.

► **Note:** When using this method, you must have at least the same amount of free space available on your hard disk as on the original CD to contain the CD-ROM image.



## Copy from Hard Disk to CD Recorder



Once your hard disk contains a previously read CD image, you can make duplicate copies without rereading the original CD.

## Make Your Copies

Once you've decided which method works best for you, check the section below for step-by-step instructions for creating your backup CDs.

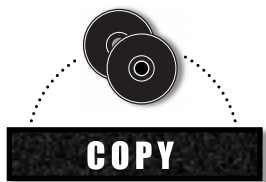
### CD-ROM to CD Recorder

This is the option you'll use if you have a CD reader and a CD recorder. If you only have a single read/write recorder, please use the CD to hard disk to CD method. To copy an audio CD directly, you'll need a digital audio extraction capable SCSI reader.

1. Start HyCD Copy by clicking on the **HyCD Copy** icon.



2. Insert the original CD into the CD-ROM reader and insert a blank CD into the recorder.



3. Press the **Read from CD-ROM and copy to CD Recorder directly** button.



4. Press the **Record** button to begin the duplication process.



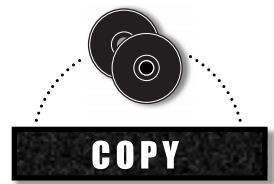
► **Note:** The HyCD software automatically selects the “test & write” option as the default for recording the CD. You may select a different mode or speed of recording by selecting test & write, test only, write only, or various speed options. See page 13 for more details about these options.

## CD to Hard Disk to CD

If you're using just one read/write capable CD recorder, use this method to back up your CDs.

1. Insert the original CD into the CD read/write device.
2. Press the **Copy from CD Recorder to Hard Drive, then Copy back to CD Recorder** button. Follow the screen prompts to identify the required file locations.





3. Press the **Save** button to copy the image to your hard drive. Be sure there is enough space available on the hard drive to contain the CD-ROM image.
4. Insert a blank CD into the recorder. Press the **Next** button. The "HyCD copy record" window will appear.
5. Press the **Record** button to begin the duplication process.



**Note:** The HyCD software automatically selects the "test & write" option as the default for recording the CD. You may select a different mode or a different recording speed by selecting test & write, test only, write only, or various speed options. See page 13 for more details.

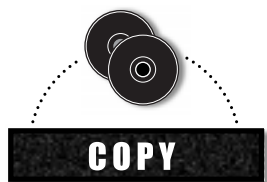
## Hard Disk to CD Recorder

If you've already copied a CD image onto your hard disk, use this method to make duplicate CDs.

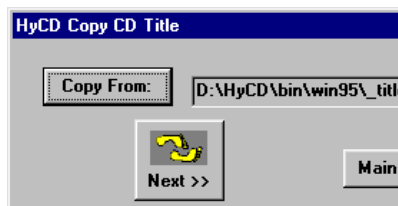
1. Press the **Copy From Hard Disk to CD Recorder** button.







2. Select the file you wish to write to the CD from the “Copy CD Title” window. Press the **Next** button.



3. Insert a blank CD into the recorder and press the **Record** button to begin the duplication process.





# Chapter Five

## HyCD Music: Make Your Own Mixes



With HyCD Music, you can create your own customized music CDs. HyCD Music guides you step-by-step as you drag and drop the songs you want from an original CD or from many CDs, organize the order of the play list, and write a new CD. If you have SCSI readers capable of digital audio extraction, then you can perform CD-to-CD direct duplication.

HyCD Music automates the tedious tasks of hardware configuration and performs automatic system configuration, device driver initialization, and CD recorder speed selection and switching.

HyCD Music can support CD-to-CD direct copy with the Plextor PX-4XCE, PX-8XCS, PX-12XSx and PX-20TSx and Philips PCA80SC and PCA165SC SCSI CD readers.

### Choices, Choices

You can use HyCD Music to make a new CD or to copy more songs onto a CD you've already created. The two processes you'll use are copying from CD to hard disk to CD, and copying straight from



a hard disk to a CD.

## CD to Hard Disk to CD

Using a read/write capable CD recorder requires a two-step process. First, you'll read the original songs and save them to your hard drive, using the CD recorder as a reader. Then, the songs can be written from the hard drive back to the recorder.

## Adding Additional Songs

Once your hard drive contains a previously read song, you can write it to a new CD without rereading the original CD.

# Putting Things Together

## ▶ Making Your Mix

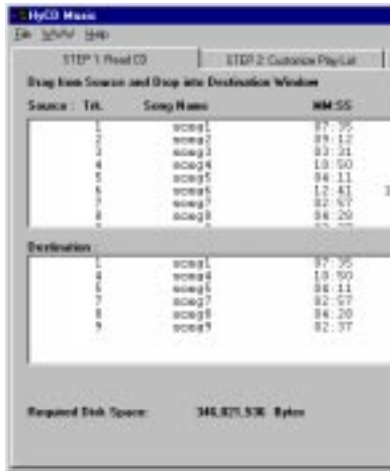
**Note:** When using this method, you must have at least the same amount of free space available on your hard disk as on the original CD to contain the CD-ROM image.

1. Start HyCD Music by clicking on the **HyCD Music** icon. The HyCD Music window will appear.
2. Select the songs you want to record by inserting an original CD into your CD reader. Press the **Next CD** button to scan the CD.





3. Drag the selected songs from the source window to the destination window. When all the songs have been selected, press the **Next** button to save the files to the hard drive.



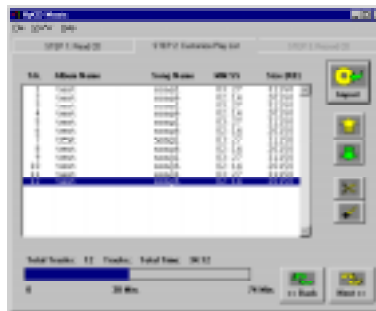
4. Follow the on-screen instructions to select the destination location for the song file. Make sure there is enough hard disk space available to hold the image.
5. Press the **OK** button to copy the songs to the hard drive. A status window will show the progress of the write process. After the image is saved, the screen will change to the customize window. You can select additional tracks from different CDs by pressing the **Back** button now to return to the "read CD" window.
6. Repeat steps 2 through 5 above to select additional songs from other CDs. After all the songs have been written to the hard disk, the "customize play list" window will appear again.



7. Import additional song files you have previously saved by pressing the **Import** button. Select the additional files you want by selecting them and pressing **Open** to add them to the play list.



8. Move songs up or down in the list order by using the **Up** or **Down** arrows. Use the **Cut** and **Paste** buttons to add or delete files as desired. Once all the files are selected, you are ready to write to the CD recorder.



9. Press the **Next** button or go to the **Record the CD** tab to record the CD.



10. Press the **Record** button to complete the recording process. The "music playback option" window will appear. Choose the option you prefer and follow the instructions on the screen.



### Adding New Songs

If you chose "Add new songs in the future" as the music playback option when you recorded the original audio CD, you can add additional songs to your music CD any time you like.

1. Scan the new source CD to pick out the additional songs you want to add to the destination CD. Follow the prompts on the screen. If you only want to import songs previously saved to your hard drive, skip Step 1 and go to Step 2.



2. Go to the "Step 2: customize play list" window. Your saved files will appear in the window. Import additional previously saved files to the play list window if desired, and order the songs in the sequence you prefer.





3. Press the **Next** button to go to Step 3: Record CD.
4. Insert your previously recorded CD into the CD recorder.
5. Press the **Record** button to complete the recording process. The "music playback option" window will appear. Choose the option you prefer and follow the instructions on the screen.



**PUBLISHER**

# Chapter Six

## HyCD Publisher

### Your own Personal Version



We've provided you with a copy of HyCD Publisher Personal version cross-platform CD recording software for your CD-ROM premastering needs. HyCD Publisher Professional version guides you step-by-step as you back up or create most common types of CDs in the market: data CDs, music CDs, and enhanced CDs. Create a single CD-ROM that can be read on PC DOS, Windows 3.X, Windows 95 and Windows NT platforms. Additional features include read/write image file, validate after write, profile system speed, optimize transfer buffer, and virtual disk. If you'd like to upgrade to the HyCD Publisher Professional version, call CDR at (408) 255-0999 or visit our web site at [www.HyCD.com](http://www.HyCD.com).

### Your On-Line Tutor

Before you use this software for the first time, we recommend that you view the HyCD Publisher Tutorial, which is located in your HyCD directory. Access it by using the Start menu on Windows 95 and NT or from the HyCD Suite Program Group in Windows 3.X.





## Read All About It

For instructions on using HyCD Publisher, please refer to the electronic version of the HyCD Publisher manual, which was shipped on the accompanying CD along with the Adobe Acrobat reader. To access the manual, just click on the **Help** button on the main menu.

The following table illustrates the features supported in the HyCD Publisher and Publisher Professional versions.



## PUBLISHER

FEATURES	PERSONAL VERSION	PROFESSIONAL VERSION
HyCD for PC, WinNT and Win95	◆	◆
Create Windows 95 CD from Windows Version	◆	◆
Automatic File Name Conversion	◆	◆
Validate After Write	◆	◆
Read/Write Virtual Disk	◆	◆
Optimize Data Transfer Buffer	◆	◆
Simple Interface, Does not require Wizard	◆	◆
Auto Loader, Transporter, Robotic Support	◆	◆
Supports 6X, 4X, and 2X Recorders	◆	◆
Audio File Converter	WAV, AIFF, AU	WAV, AIFF, AU
Create PC CD (ISO 9660)	◆	◆
Create Windows 95 CD (Joliet)	◆	◆
Audio (CDDA) Reading and Recording	◆	◆
Drag and Drop File Addition	◆	◆
Multisession	◆	◆
Write On-the-fly	◆	◆
Simulation Write	◆	◆
Test Before Writing	◆	◆
Profile System Speed	◆	◆
Read/Write Image File	◆	◆
Backup CD	◆	◆
Duplicate Data, Audio and Multimedia CDs	◆	◆
Create Mixed Mode CD	◆	◆
Create Enhanced CD	◆	◆
Create CD-ROM/XA	◆	◆
HyCD for PC, Mac, Unix, Win95, and WinNT	◆	◆
Create Mac CD without using Mac	◆	◆
Create UNIX without using UNIX	◆	◆
Create Bootable CD for PC	◆	◆
Create Bootable CD for UNIX	◆	◆
Optimize File Placement on CD	◆	◆
Customize File Placement on CD	◆	◆
CD to CD Duplication	◆	◆
Video CD	◆	◆

**Notes:**



# Chapter Seven

## HyCD Format: A Clean Slate

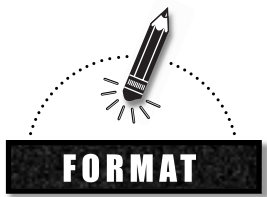


Whenever you use a rewritable CD for the first time, or use it to record over previous data, you should first format the disk using HyCD Format. Here's how.

1. Start HyCD Format by clicking on the **HyCD Format** icon. The HyCD Format window will appear.



2. Select the formatting option you want to use by choosing the appropriate button.



3. Use Complete Format to format a new CD or to erase all of the data on a previously recorded CD.
4. Use Quick Format to erase only the Table of Contents on a previously formatted CD. Be sure that the CD you are formatting with this option is known to be in good condition, since this method will not correct any physical errors occurring elsewhere on the CD.



# Chapter Eight

## Helpful Hints

### Getting the Most From Your Software



As you use your HyCD Recording software, there are a few things you can do to improve your software's performance. Here's a handful of tips that should help you out.

### Windows 95 CD-ROM Reader Driver Issue

After writing the current session, the Windows 95 CD-ROM driver may or may not update its contents, so the system may still only show the previous session.

#### **Work Around:**

To "force" Windows 95 to update the CD-ROM, eject the tray and access the drive to get an accessing error. Insert the tray back into the recorder and access the CD again. By this time, Windows 95 will reread the CD and update the internal structure to "mount" the last session.



## HINTS

### **Virtual Memory**

When you're extracting data to a hard disk containing a swap file, keep in mind that the computer requires a definable amount of the disk to function properly. Failure to provide for this could result in operating system errors (a blue screen). To avoid this situation, save your files to a disk that does not contain a swap file.

### **Increase System Performance**

You'll only need to increase the data transfer rate if you're writing an image to a CD-ROM recorder. Other devices used as destinations will not have any speed requirements.

There are several methods you can attempt in order to increase the system performance and sustain the data transfer speed that the CD-ROM recorder requires. Here are some suggestions.

#### **Single Process Recording**

The HyCD Recording software should be the only program that you're running during the recording process. If you suspend or remove other programs, the HyCD software will be able to obtain a faster response from the computer system.

#### **Recording at a Lower Speed**

Some CD-ROM recorders support recording at both low and high speeds. If you configure the CD-ROM recorder to record at a lower speed, the required data transfer rate will be reduced. In this way, the computer system may be able to satisfy a lesser requirement.



## HINTS

### **Image On-The-Fly vs. Copy Image**

Creating a CD-ROM from a file list or CD-ROM disc directly onto a CD-ROM recorder is called "Image On-The-Fly." This process requires the HyCD software to organize the entire CD-ROM image in computer memory and send the data to the recorder. To sustain the required data transfer rate, the computer must be fast enough to process all the data and keep up with the data transfer. Because of the varying characteristics of different computer systems, some are unable to achieve this level of performance. As an alternative, CDR recommends that you first compose a CD-ROM image and send the data to the hard disk. Then, copy the image from the hard disk to the CD-ROM recorder.

### **Defragment Disk**

On a PC, after a hard disk has been used for some time, it is possible that files stored there are no longer laying on contiguous tracks. This will cause the computer to access several parts of the hard disk for one piece of data, resulting in slower accessing time. An easy solution to this is to run the defrag command in DOS 6.2 or the speed disk command in Norton Utility to defragment the disk drive.

### **Enhance Computer System**

One of the easiest methods of increasing your data transfer rate is to upgrade your computer hardware. CDR recommends that the computer system should have at least 16MB of internal memory and a large amount of swap area. On MS Windows systems, increase the size of the Virtual Memory from the Control Panel's 386 Enhanced icon. On a PC, we suggest that you have the CD-ROM recorder as the only device on a SCSI adapter card. Place other SCSI devices on a separate SCSI adapter card. Using this method will enhance the data transfer speed between the source device and the CD-ROM recorder.



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